BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 2ND AND FINAL BILL

Name of work: Improvements to Roads and Drains at Thindlu and Kodigehalli Surrounding Areas in Ward No.09 Kodigehalli.

Estimated Cost : Rs. 100.00 Lakhs

Job Code: 009-22-000003

Head of Account : P3075 Special Comprehensive Development Works

Name of Agency: Sri. Subba Reddy K.V, No. 106/B, Aswathnagara, RMV 2nd Stage, Bangalore - 560094.

Work order No: BBMP/EE/BTP/WO/56/2021-22 Dated: 18-03-2022.

	Measurements Recarded on :	2/06/2023								
Sl No	**Description of work**	**Mesurement**						**Qty**	**Rate / Unit**	**Amount**
		No.	**L**	**B1**	**B2**	**Av.,B**	**D**			
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications									
									Cum	
	Previous Qty Vide 1st and Part Bill Qty =							**649.51**		
	Present Qty =							**NIL**		
2	**Removing and refixing** stone slabs of drains and pointing in CM (1:3)									
									Sqm	
	Previous Qty Vide 1st and Part Bill Qty =							**1952.64**		
	Present Qty =							**NIL**		
3	Providing granite slabs of selected quality roughly dressed having a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.									
									Sqm	
	Previous Qty Vide 1st and Part Bill Qty =							**358.56**		
	Present Qty =							**NIL**		
4	Providing granite slabs of selected quality roughly dressed having a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.									
									Sqm	
	Previous Qty Vide 1st and Part Bill Qty =							**129.60**		
	Present Qty =							**NIL**		
5	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.									
									Cum	
	Previous Qty Vide 1st and Part Bill Qty =							**39.43**		
	Present Qty =							**NIL**		

Sl No	Description of work	Mesurement						Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
6	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm									
	Previous Qty Vide 1st and Part Bill Qty =							**86.35**		
	Present Qty =							**NIL**		
7	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.									
									Tonne	
	Previous Qty Vide 1st and Part Bill Qty =							**5.40**		
	Present Qty =							**NIL**		
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., copmplete.									
									Sqm	
	Previous Qty Vide 1st and Part Bill Qty =							**435.00**		
	Present Qty =							**NIL**		
9	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.As per Engineer incharge.									
									Sqm	
	Previous Qty Vide 1st and Part Bill Qty =							**17.88**		
	Present Qty =							**NIL**		
10	Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.									
									Cum	
	Previous Qty Vide 1st and Part Bill Qty =							**18.96**		
	Present Qty =							**NIL**		
11	Providing and constructing load bearing wall with **solid concrete blocks** having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications.									
									Sqm	
	Previous Qty Vide 1st and Part Bill Qty =							**379.20**		
	Present Qty =							**NIL**		
12	**Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications									
									Cum	

Sl No	Description of work	Mesurement						Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
	Present Qty =							**NIL**		
13	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications.									
									Sqm	
	Previous Qty Vide 1st and Part Bill Qty =							**1476.79**		
	Present Qty as Per-premeasurement vide E-MB Page No. 01 to 03 is =							**1459.16**		
	Total Qty							**2935.95**		
	Deduct Previous Qty							**-1476.79**		
	Presenty Qty to be paid							**1459.16**	43.32	**63211.00**
14	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.									
									Sqm	
	Previous Qty Vide 1st and Part Bill Qty =							**1476.79**		
	Present Qty =							**NIL**		
15	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications									
									Cum	
	Previous Qty Vide 1st and Part Bill Qty =							**36.98**		
	Present Qty =							**NIL**		
16	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.									
									Cum	
	Previous Qty Vide 1st and Part Bill Qty =							**339.66**		
	Present Qty as Per-premeasurement vide E-MB Page No. 4 to 5 is =							**364.79**		
	Total Qty							**704.45**		
	Deduct Previous Qty							**-339.66**		
	Presenty Qty to be paid							**364.79**	2097.34	**765089.00**
17	Providing and applying primer coat with SS grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70 kg per m2 using mechanical means									
									Sqm	
	Present Qty as Per-premeasurement vide E-MB Page No. 6 to 8 is =							**2286.06**	35.55	**81270.00**
18	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm)									
									Cum	
	Present Qty as Per-premeasurement vide E-MB Page No. 9 to 11 is =							**114.30**	7091.86	**810600.00**

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
19	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications									
									Sqm	
	Present Qty as Per-premeasurement vide E-MB Page No. 12 to 13 is =							**3674.40**		
	Qty upto 125%							**1384.88**	5.55	**7687.00**
	Qty above 125%							**2289.52**	5.76	**13188.00**
20	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications									
									Sqm	
	Present Qty as Per-premeasurement vide E-MB Page No. 14 to 15 is =							**3674.40**	13.33	**48980.00**
21	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen									
	Bank Colony								Cum	
	3rd Cross From Dead end to Main Road	1	15.00	4.95	5.20	5.08	0.04	3.05		
		1	15.00	5.20	5.70	5.45	0.04	3.27		
		1	15.00	5.70	5.50	5.60	0.04	3.36		
		1	15.00	5.50	5.90	5.70	0.04	3.42		
		1	3.10	5.90	5.95	5.93	0.04	0.73		
	2nd Cross N/S									
	Dead to Main Road	1	15.00	2.40	3.55	2.98	0.04	1.79		
		1	15.00	3.55	3.70	3.63	0.04	2.18		
		1	15.00	3.40	3.45	3.43	0.04	2.06		
		1	15.00	3.45	4.50	3.98	0.04	2.39		
		1	5.20	4.50	4.55	4.53	0.04	0.94		
	2nd Cross S/S									
	Main Road to Dead End	1	15.00	4.40	4.05	4.23	0.04	2.54		
		1	15.00	4.05	4.20	4.13	0.04	2.48		
		1	2.30	4.20	4.20	4.20	0.04	0.39		
	1st Cross									
	From Dead end to Main Road	1	15.00	3.90	4.25	4.08	0.04	2.45		
		1	15.00	4.25	4.20	4.23	0.04	2.54		
		1	15.00	4.20	4.30	4.25	0.04	2.55		
		1	15.00	4.30	4.60	4.45	0.04	2.67		
		1	15.00	4.60	4.95	4.78	0.04	2.87		
		1	15.00	4.95	4.90	4.93	0.04	2.96		
		1	4.70	4.90	4.90	4.90	0.04	0.92		
	Bank Colony Main Road									
	Dead to Thindlu Main Road	1	15.00	5.80	6.80	6.30	0.04	3.78		
		1	15.00	6.80	5.90	6.35	0.04	3.81		
		1	15.00	5.90	5.00	5.45	0.04	3.27		
		1	15.00	5.00	6.65	5.83	0.04	3.50		
		1	8.60	6.65	6.90	6.78	0.04	2.33		

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
	VMS layout 2nd Cross Road									
	Dead to Main Road	1	15.00	2.60	3.30	2.95	0.04	1.77		
		1	15.00	3.30	3.15	3.23	0.04	1.94		
		1	15.00	3.15	3.55	3.35	0.04	2.01		
		1	7.40	3.55	4.10	3.83	0.04	1.13		
	VMS layout 1st Cross Road									
	Main Road to Dead End	1	15.00	4.30	4.05	4.18	0.04	2.51		
		1	15.00	4.05	3.30	3.68	0.04	2.21		
		1	2.20	3.30	3.80	3.55	0.04	0.31		
	VMS layout Main Road									
	Dead End to Thindlu Main Road	1	15.00	5.00	5.30	5.15	0.04	3.09		
		1	15.00	5.50	4.90	5.20	0.04	3.12		
		1	15.00	4.90	5.25	5.08	0.04	3.05		
		1	15.30	5.25	5.50	5.38	0.04	3.29		
	Buddajyothi Layout									
	3rd Cross From Dead end to Main Road	1	15.00	4.80	4.60	4.70	0.04	2.82		
		1	14.00	4.60	5.20	4.90	0.04	2.74		
	2nd Cross From Dead end to Main Road									
		1	15.00	3.95	4.00	3.98	0.04	2.39		
		1	14.00	4.00	4.80	4.40	0.04	2.46		
	1st Cross N/S From Dead end to Main Road									
		1	15.00	3.15	4.45	3.80	0.04	2.28		
		1	10.30	4.45	4.60	4.53	0.04	1.86		
	1st Cross S/S From Dead end to Main Road									
		1	15.00	4.50	4.00	4.25	0.04	2.55		
		1	12.00	4.00	4.10	4.05	0.04	1.94		
	Buddajyothi Layout Main Road									
	From Dead end to Jai Hanuman Layout 1st Cross	1	15.00	4.40	4.60	4.50	0.04	2.70		
		1	15.00	4.60	4.50	4.55	0.04	2.73		
		1	15.00	4.50	4.25	4.38	0.04	2.63		
		1	15.00	4.25	5.10	4.68	0.04	2.81		
		1	15.00	5.10	4.60	4.85	0.04	2.91		
		1	15.00	4.60	4.15	4.38	0.04	2.63		
		1	7.30	4.15	5.10	4.63	0.04	1.35		
	Jai hanuman Layout 1st Cross									
	From Buddajyothi Layout Main Road Enterance to Sai Sadan Apartment	1	15.00	4.40	4.50	4.45	0.04	2.67		
		1	15.00	4.50	4.35	4.43	0.04	2.66		
		1	15.00	4.35	5.10	4.73	0.04	2.84		
		1	15.00	5.10	4.85	4.98	0.04	2.99		
		1	15.00	4.85	4.10	4.48	0.04	2.69		

Assistant Executive Engineer
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Sl No	Description of work	Mesurement						Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
		1	15.00	4.35	5.00	4.68	0.04	2.81		
		1	8.50	5.00	4.30	4.65	0.04	1.58		
		Total Qty =						**146.98**	10481.15	**1540478.00**

Assistant Engineer
New Ward No. 11

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Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
	Measurements Recarded on :									
22	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.									
	Bank Colony								Sqm	
	3rd Cross From Dead end to Main Road	2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	3.10			0.10		0.62		
	2nd Cross N/S									
	Dead to Main Road	2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	5.20			0.10		1.04		
	2nd Cross S/S									
	Main Road to Dead End	2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	2.30			0.10		0.46		
	1st Cross									
	From Dead end to Main Road	2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	4.70			0.10		0.94		
	Bank Colony Main Road									
	Dead to Thindlu Main Road	2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	8.60			0.10		1.72		
	VMS layout 2nd Cross Road									
	Dead to Main Road	2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	7.40			0.10		1.48		
	VMS layout 1st Cross Road									
	Main Road to Dead End	2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	2.20			0.10		0.44		
	VMS layout Main Road									
	Dead End to Thindlu Main Road	2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		

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Sl No	Description of work	Mesurement						Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
	Buddajyothi Layout									
	3rd Cross From Dead end to Main Road	2	15.00			0.10		3.00		
		2	14.00			0.10		2.80		
	2nd Cross From Dead end to Main Road	2								
		2	15.00			0.10		3.00		
		2	14.00			0.10		2.80		
	1st Cross N/S From Dead end to Main Road									
		2	15.00			0.10		3.00		
		2	10.30			0.10		2.06		
	1st Cross S/S From Dead end to Main Road									
		2	15.00			0.10		3.00		
		2	12.00			0.10		2.40		
	Buddajyothi Layout Main Road									
	From Dead end to Jai Hanuman Layout 1st Cross	2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	7.30			0.10		1.46		
	Jai hanuman Layout 1st Cross									
	From Buddajyothi Layout Main Road Enterance to Sai Sadan Apartment	2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	15.00			0.10		3.00		
		2	8.50			0.10		1.70		
		Total Qty =						**160.98**	476.57	**76719.00**

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Sl No	Description of work	Mesurement						Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
	Measurements Recarded on :									
	EIRL									
E1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead By Mechanical Means - Cement Concrete Grade M-15 & M-20									
	New CC Road								Cum	
	VMS layout 1st Cross Road E/S									
		1	15.00	4.20	4.00	4.10	0.15	9.23		
		1	15.00	4.00	4.00	4.00	0.15	9.00		
		1	18.00	4.00	4.00	4.00	0.15	10.80		
	VMS layout 2nd Cross Road E/S									
		1	15.00	3.20	3.30	3.25	0.15	7.31		
		1	15.00	3.30	3.40	3.35	0.15	7.54		
		1	15.00	3.40	3.40	3.40	0.15	7.65		
		1	15.00	3.40	3.40	3.40	0.15	7.65		
		1	6.00	3.40	3.40	3.40	0.15	3.06		
		Total Qty =						**62.24**	1015.52	**63201.00**

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Sl No	Description of work	Mesurement						Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
	Measurements Recarded on :									
E2	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 Using 40 mm nominal size graded crushed coarse aggregates									
	New CC Road								Cum	
	VMS layout 1st Cross Road E/S									
		1	15.00	4.20	4.00	4.10	0.15	9.23		
		1	15.00	4.00	4.00	4.00	0.15	9.00		
		1	18.00	4.00	4.00	4.00	0.15	10.80		
	VMS layout 2nd Cross Road E/S									
		1	15.00	3.20	3.30	3.25	0.15	7.31		
		1	15.00	3.30	3.40	3.35	0.15	7.54		
		1	15.00	3.40	3.40	3.40	0.15	7.65		
		1	15.00	3.40	3.40	3.40	0.15	7.65		
		1	6.00	3.40	3.40	3.40	0.15	3.06		
		Total Qty =						**62.24**	5735.79	**356967.00**

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Assistant Engineer
New Ward No. 11

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sl No	Description of work	Mesurement						Qty	Rate / Unit	Amount
		No.	L	B1	B2	Av.,B	D			
	Measurements Recarded on :									
E3	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work									
	New CC Road								Cum	
	VMS layout 1st Cross Road E/S									
		1	15.00	4.20	4.00	4.10	0.15	9.23		
		1	15.00	4.00	4.00	4.00	0.15	9.00		
		1	18.00	4.00	4.00	4.00	0.15	10.80		
	VMS layout 2nd Cross Road E/S									
		1	15.00	3.20	3.30	3.25	0.15	7.31		
		1	15.00	3.30	3.40	3.35	0.15	7.54		
		1	15.00	3.40	3.40	3.40	0.15	7.65		
		1	15.00	3.40	3.40	3.40	0.15	7.65		
		1	6.00	3.40	3.40	3.40	0.15	3.06		
		Total Qty =						**62.24**	7880.94	**490471.00**
								Sub Total		**4317861.00**
								Add GST @ 18%		**777215.00**
								Total		**5095076.00**

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